Patent Application

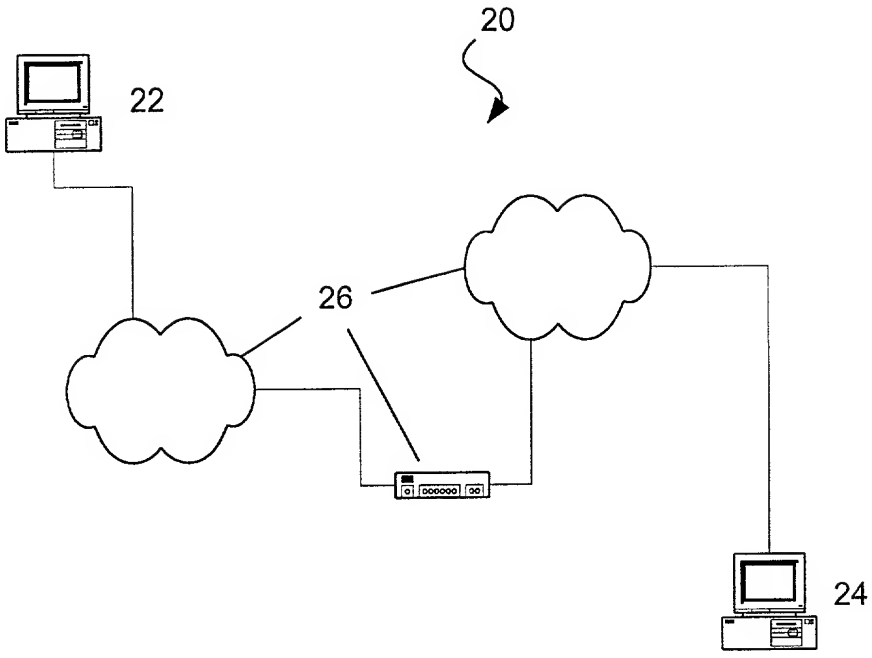

Figure 1

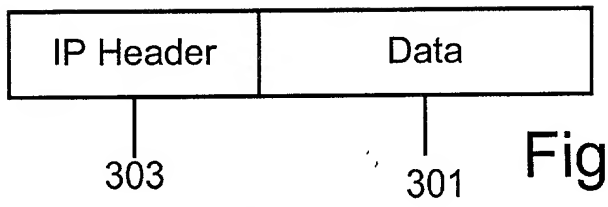

Figure 2a

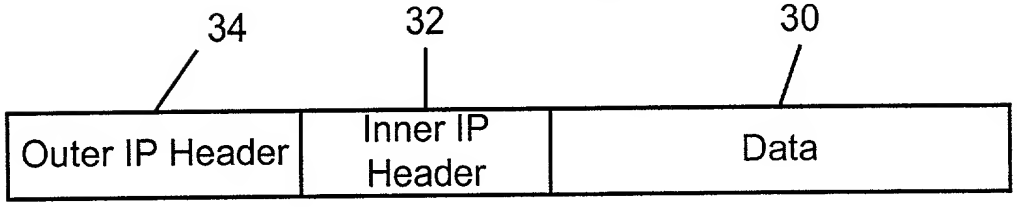

Figure 2b

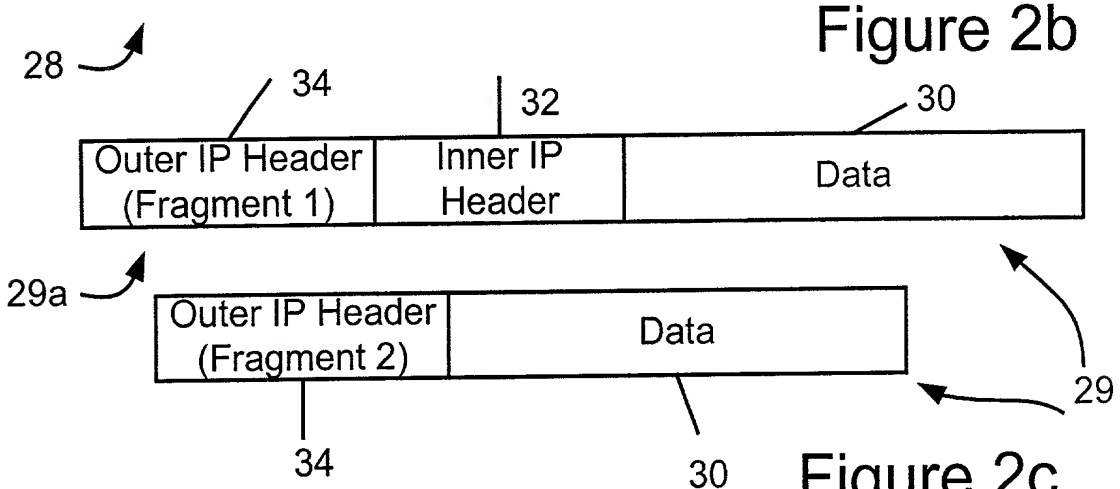

Figure 2c

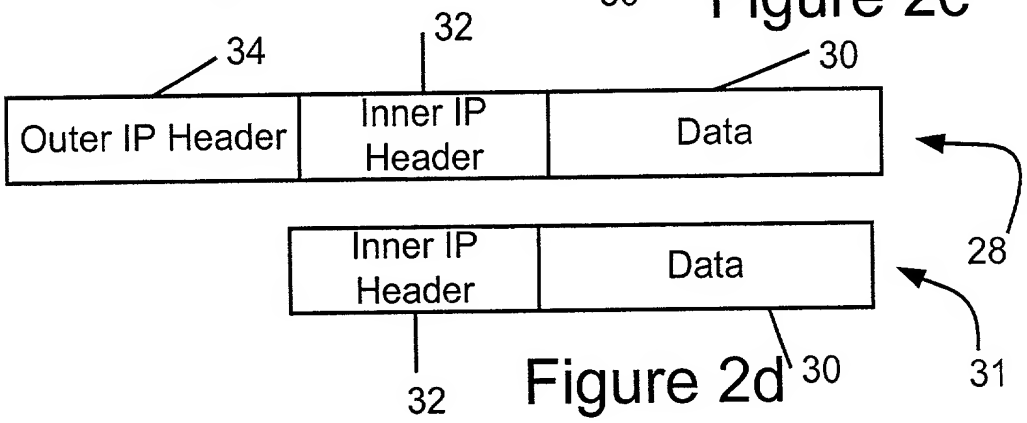

Figure 2d

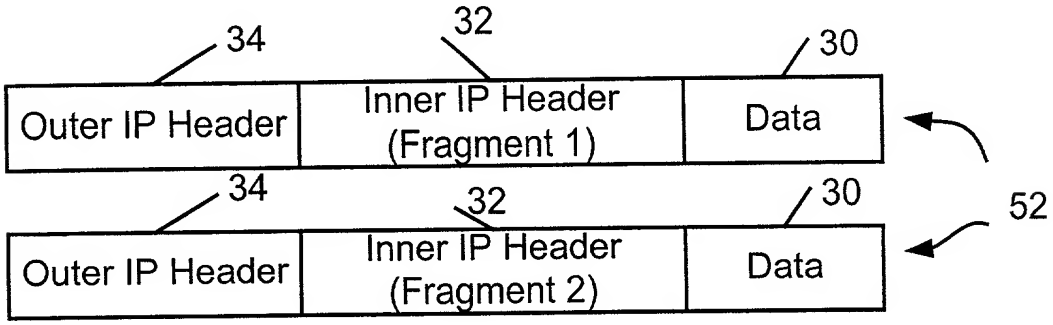

Figure 2e

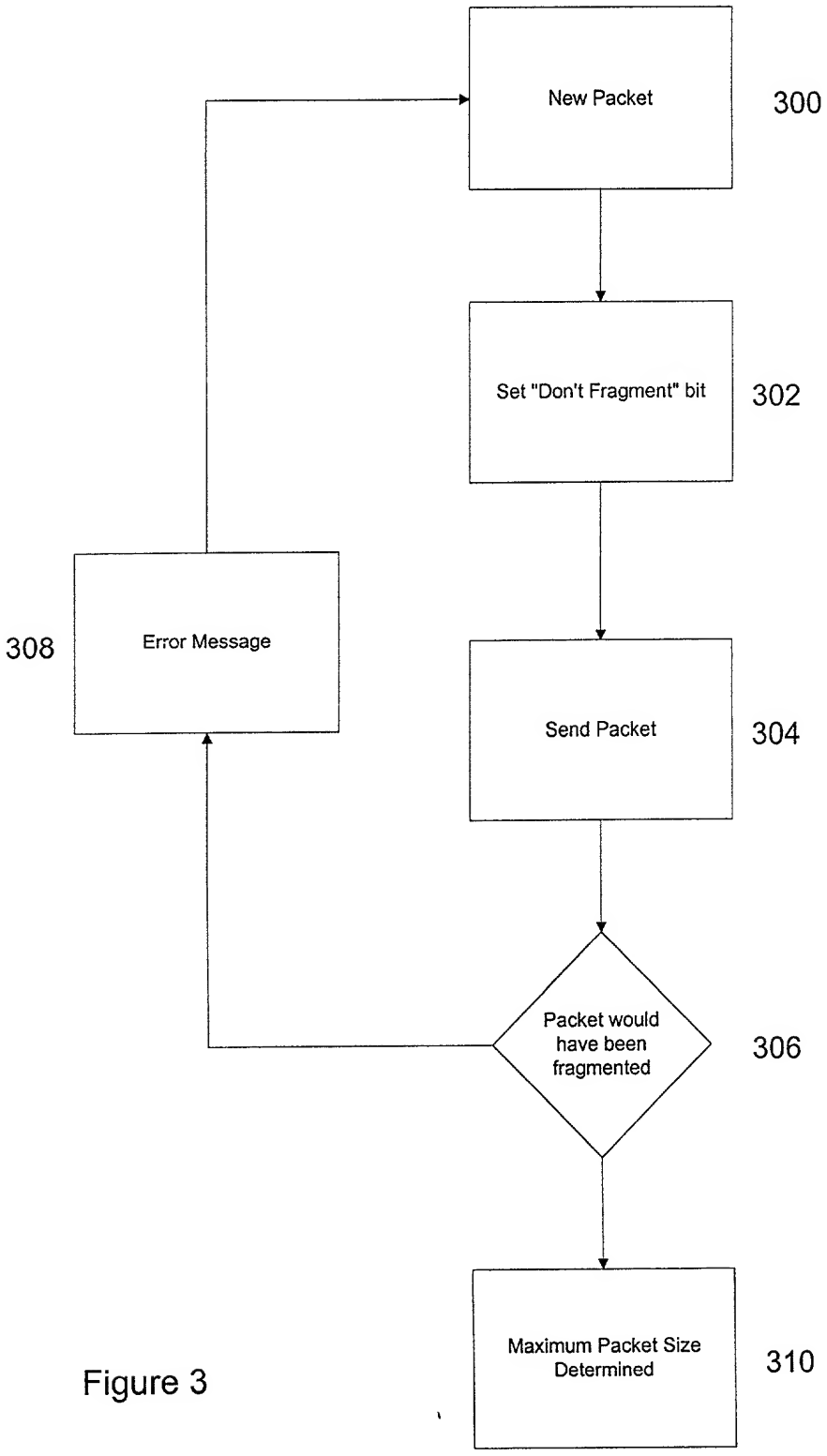
New Packet
300
Set "Don't Fragment" bit
302
Send Packet
304
Packet would have been fragmented
306
Error Message
308
Maximum Packet Size Determined
310

Figure 3

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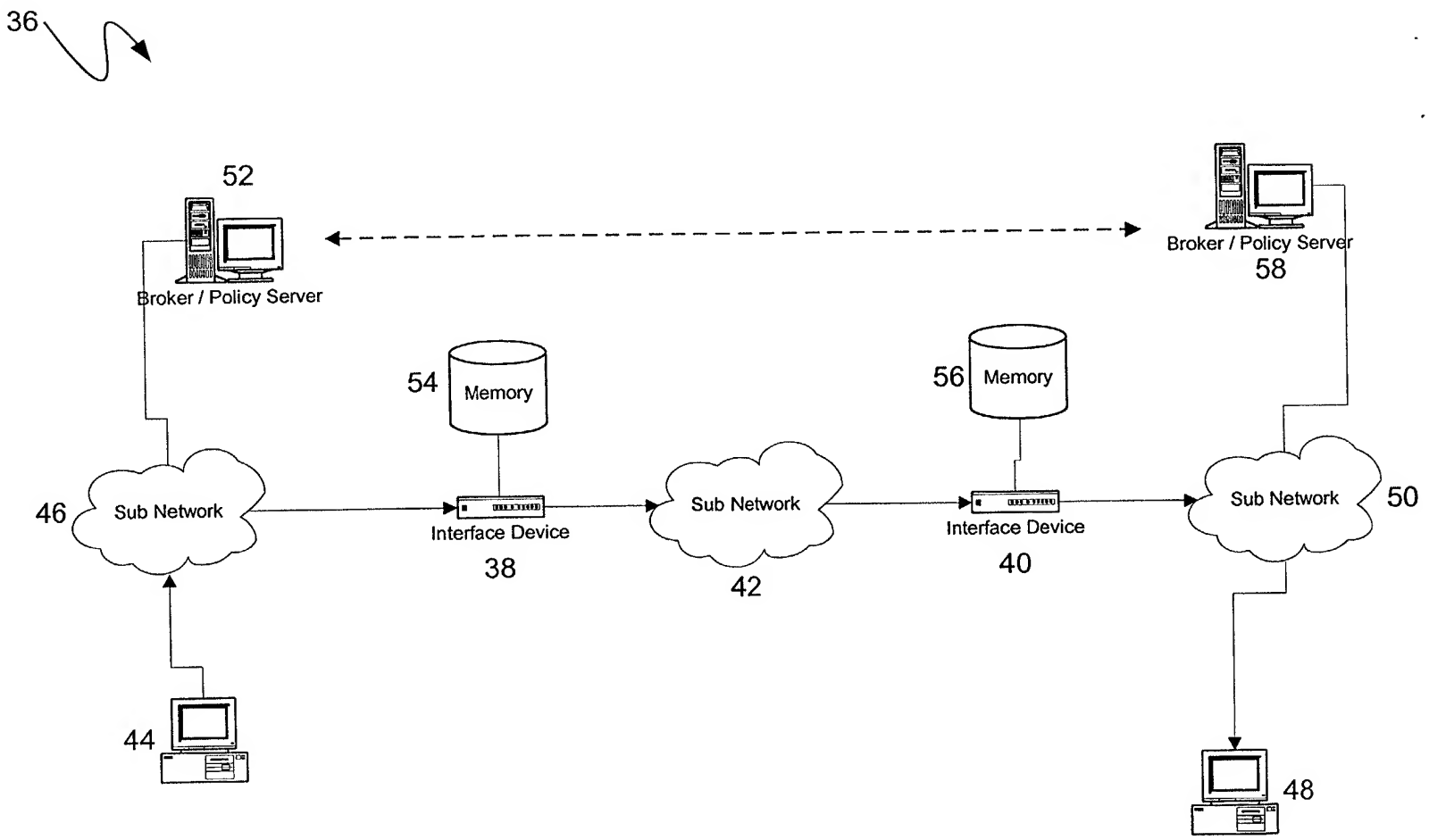

Figure 4

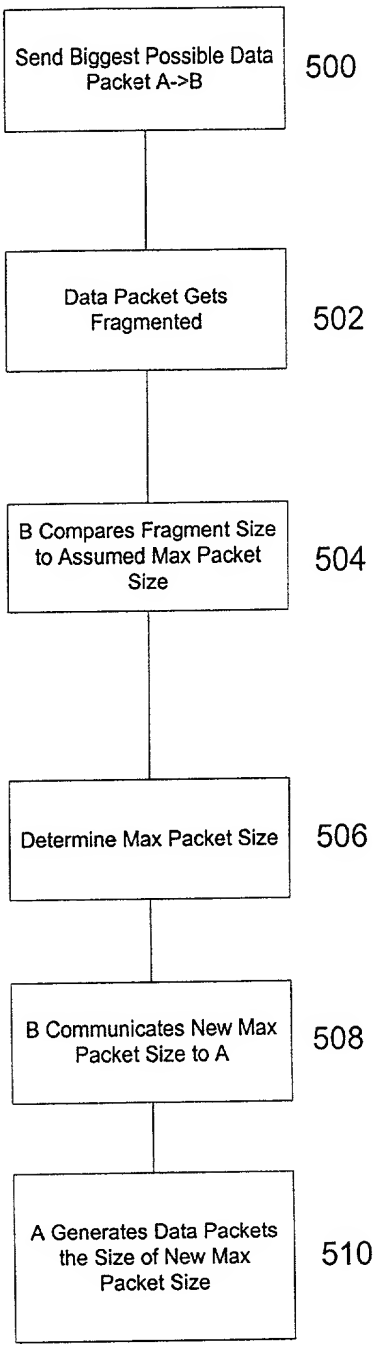
Send Biggest Possible Data Packet A->B
500
Data Packet Gets Fragmented
502
B Compares Fragment Size to Assumed Max Packet Size
504
Determine Max Packet Size
506
B Communicates New Max Packet Size to A
508
A Generates Data Packets the Size of New Max Packet Size
510

Figure 5

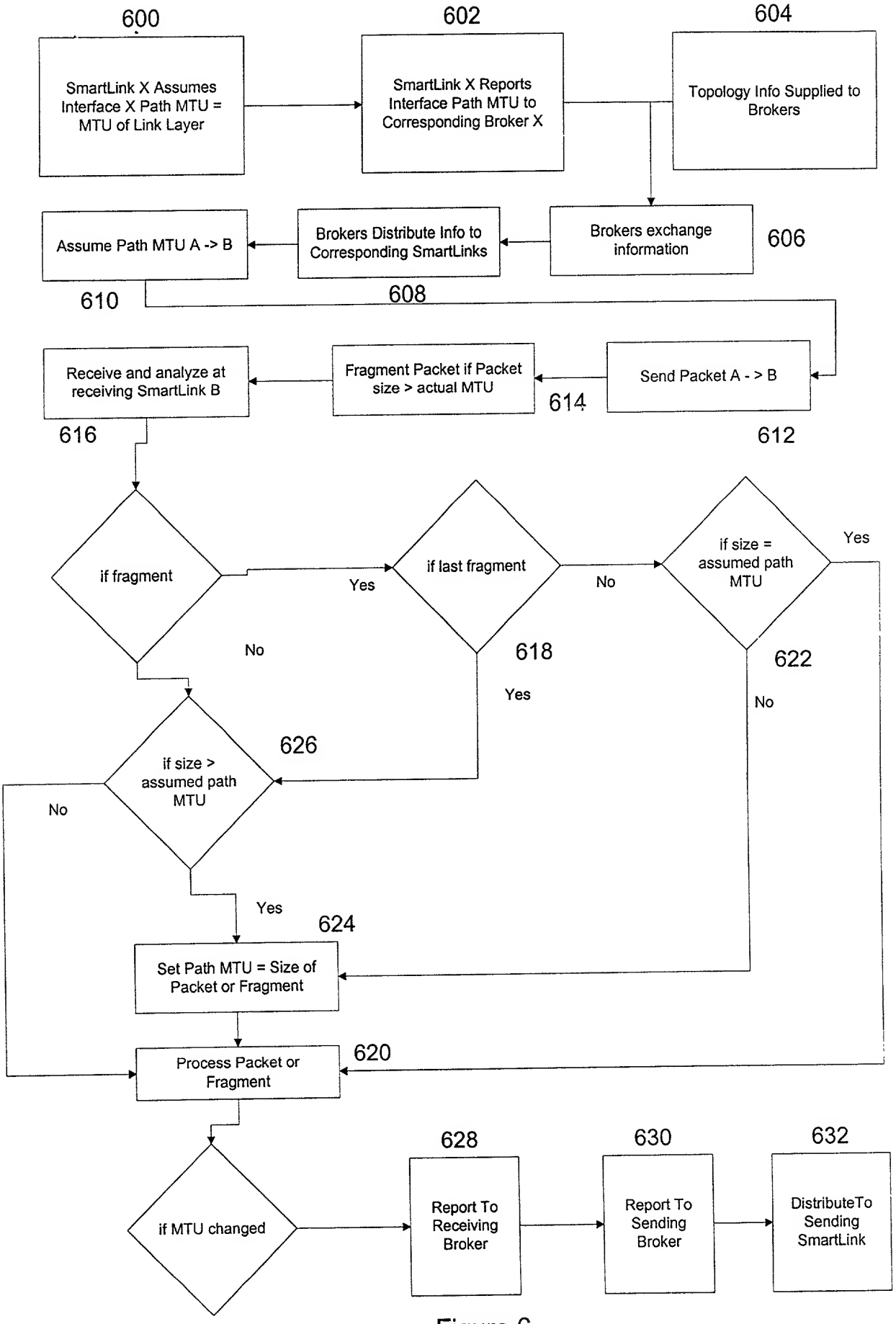
600
SmartLink X Assumes Interface X Path MTU = MTU of Link Layer
602
SmartLink X Reports Interface Path MTU to Corresponding Broker X
604
Topology Info Supplied to Brokers
Brokers exchange information
606
Brokers Distribute Info to Corresponding SmartLinks
Assume Path MTU A -> B
610
608
Send Packet A - > B
612
Fragment Packet if Packet size > actual MTU
614
Receive and analyze at receiving SmartLink B
616
if fragment
Yes
No
if last fragment
Yes
No
618
if size = assumed path MTU
Yes
No
622
if size > assumed path MTU
626
No
Yes
624
Set Path MTU = Size of Packet or Fragment
Process Packet or Fragment
620
if MTU changed
628
Report To Receiving Broker
630
Report To Sending Broker
632
DistributeTo Sending SmartLink

Figure 6

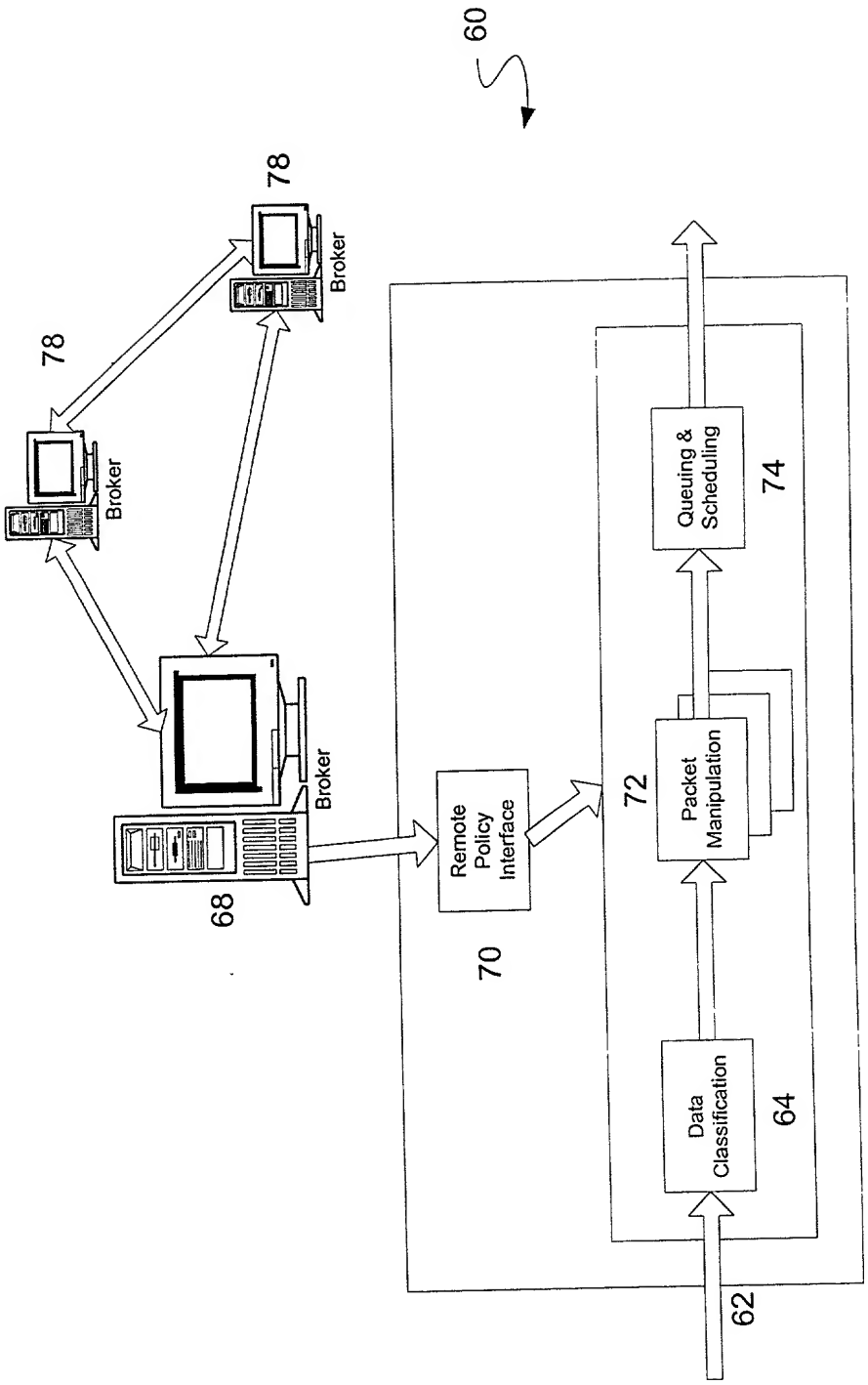
60
78
78
Broker
Broker
Broker
68
70
Remote Policy Interface
72
Packet Manipulation
Queuing & Scheduling
74
Data Classification
64
62

Figure 7